

Kindly amend the DESCRIPTION as follows:

A1 In the first line of the description after the title: insert --This is a continuation of co-  
pending application 08/745,380, filed November 8, 1996.--

At page 1, lines 3-5: delete "Attorney Docket No.: Avidor 2-12-35-8-14, filed on even  
date herewith and having the same inventors; and Attorney Docket No.: Avidor 3-  
13-36-9-15, filed on even date herewith and having the same inventors" and insert  
--U.S. Pat. Application 08/745, 382, now abandoned, and U.S. Pat. No.  
5,914,946--

Kindly AMEND the CLAIMS as follows:

Cancel claims 1-29.

Kindly ADD the following CLAIMS:

1 -- 30. A method for operating a fixed wireless loop system, comprising the steps of:  
2 receiving a request by a first terminal to establish a first communications link; and  
3 allocating at least two temporal communication slots to said first terminal to support  
4 said first communications link when interference caused by and  
5 interference experienced by the first communications link are acceptably low.

1 31. The method of claim 1 further comprising the steps of:  
2 estimating said interference caused by said first communications link using previously-  
3 obtained measurements of interference that other communications links experience  
4 from one another and from a transmitter of said first terminal;  
5 estimating said interference experienced by said first communications link using previously-  
6 obtained measurements of interference that a receiver of said first terminal  
7 experiences from said other communications links.

1 32. The method of claim 31 wherein the step of estimating said interference caused by said  
2 first communications link and the step of estimating said interference experienced by said first  
3 communications link comprises accessing a data base comprising data indicative of mutual interference  
4 levels between every potential communications link within said fixed wireless loop system.

1 33. The method of claim 32 wherein:  
2 said fixed wireless loop system comprises a plurality of cells, each of which comprises a base  
3 station and a multiplicity of terminals;  
4 each communications link comprises a base station and one of said terminals within a  
5 same cell;  
6 said first communications link is located in a first cell of said plurality;  
7 at least one of said other communications links is located in a second cell of said plurality;  
8 interference caused by said first communications link comprises interference experienced by  
9 said at least one other communications link; and  
10 said step of estimating said interference caused by said first communications link comprises:  
11 obtaining an estimate of a signal-to-total-interference-ratio experienced by said one  
12 other communications link from a cell controller controlling activities in said  
13 second cell, wherein said estimate does not include interference caused by said  
14 first communications link;  
15 obtaining, from said data base, data indicative of interference experienced by said  
16 one other communications link as a result of communications between said  
17 first communications link; and  
18 estimating interference experienced by a receiver of said one other communications  
19 link using said estimate of said signal-to-total-interference-ratio and said  
20 data from said data base.

1 34. The method of claim 30 wherein a receiver of said first communications link is located  
2 at a base station, and wherein the step of estimating said interference caused by said first  
3 communications link comprises estimating said interference based on a receive beam having notches to  
4 attenuate interference from at least some of said other communications links.

1 35. The method of claim 34 wherein said notches are characterized by a depth indicative of  
2 their ability to attenuate a signal, and wherein said step of estimating said interference caused by said  
3 first communications link further comprises using an estimated notch depth.

1           36.     The method of claim 34 wherein said notches are characterized by a depth indicative of  
2     their ability to attenuate a signal, and wherein said step of estimating said interference caused by said  
3     first communications link further comprises using a calculated notch depth.

1           37.     ~~A method for allocating a time slot to a first communications link for wireless~~  
2     transmissions, wherein a second communications link also used the allocated time slot for wireless  
3     transmissions, comprising:  
4         accessing first archived data pertaining to mutual interference between said first communications  
5         link and said second communications link;  
6         accessing second archived data pertaining to the interference level experienced by said second  
7         communications link before said first communications link is established; and  
8         allocating said time slot to said first communications link if the interference caused by and  
9         interference experienced by said first communications link are less than a predetermined  
10        level selected to provide suitable reception, as determined from said accessed first data  
11        and second archived data.

1 38. An article comprising:  
2 a processor; and  
3 a computer readable storage medium having computer-readable program code embodied therein  
4 for causing a processor to process a request by a terminal to communicate with a base station, the  
5 program code comprising:  
6 code segment for causing said processor to search for a suitable uplink time slot in which  
7 said terminal transmits to said base station, wherein said suitable uplink time slot is characterized  
8 by:  
9 a first level of interference experienced at a receiver at said base station, said first level of  
10 interference allowing for satisfactory reception, and  
11 a second level of interference experienced at other on-air base stations, wherein:  
12 said second level of interference is caused by said requesting terminal's  
13 transmission; and  
14 said second level of interference allows for acceptable reception.

1 39. The article of claim 38 further comprising code segment for causing said  
2 processor to search for a suitable downlink time slot in which said base station transmits to said  
3 terminal, wherein said suitable downlink time slot is characterized by:  
4 a third level of interference experienced at a receiver at said terminal, said third level of  
5 interference allowing for satisfactory reception, and  
6 a fourth level of interference experienced at other on-air terminals, wherein:  
7 said third level of interference is caused by said base station's transmission; and  
8 said second level of interference allows for acceptable reception. --